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Specification:

[0057] Figure 8 shows still a further example of a gas sensor device 122 with an encapsulation means 124. A substrate 126 has thereon ohmic contacts 128 and 130 and two catalytic gate electrodes 132 and 134. The catalytic gate electrodes 132 and [143] 134 are exposed on the outside of the encapsulation means such that gas species may come in contact with the catalytic materials. This example also shows a flip-chip arrangement having interconnection of the ohmic contacts 128 and 130 to the leads 136 and 138 by platinum bumps 140 and 142. It should also be noted that although this example shows a dual catalytic gate electrode, one or more catalytic gate electrodes may be part of each gas sensor device and/or an array of gas sensor devices may be employed.